

40. The method according to claim 39, wherein said voltage pulses are applied as large amplitude pulse voltammetry (LAPV) or small amplitude pulse voltammetry (SAPV).

41. The method according to claim 40, wherein said transient signals represent current or voltage.

42. The method according to claim 40, including the step of superimposing said voltage pulses on rising or falling current or voltage curves.

43. The method according to claim 39, wherein said plurality of working electrodes are formed of or coated by different materials.

44. The method according to claim 39, wherein voltammetric, potentiometric or conductometric measurements are made using said working electrodes.

45. The method according to claim 39, and including the steps of cyclically switching a current or voltage generator and/or a recording device between different working electrodes allowing sufficient time between pulses to each electrode to allow the influence of a previous pulse on the fluid to have ceased before a next pulse arrives at the same electrode.

46. The method according to claim 39, wherein said pulses are varied in frequency.

47. The method according to claim 39, wherein said pulses are varied in amplitude.

48. The method according to claim 39, including the step of treating said transients to enhance measurements before said evaluation.

49. The method according to claim 48, wherein said transients are treated by derivation, integration or proportionality methods.

50. The method according to claim 39, wherein said electrical pulses have a pulse frequency of 10Hz to 100kHz.

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